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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/744,674	01/29/2001	Teemu Tarnanen	PM276594	3264
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	WINTHROP, LLP		EXAM	MINER
P.O. BOX 10500 MCLEAN, VA 22102			D AGOSTA, STEPHEN M	TEPHEN M
			ART UNIT	PAPER NUMBER
			2683	1-
		DAT	DATE MAILED: 08/29/2003	Ø

Please find below and/or attached an Office communication concerning this application or proceeding.



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	Application No.	Applicant(s)				
	09/744,674	TARNANEN ET AL.				
Office Action Summary	Examiner	Art Unit				
	Stephen M. D'Agosta	2683				
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wit	n the correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply If NO period for reply is specified above, the maximum statutory period w Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).  Status	66(a). In no event, however, may a re within the statutory minimum of thirty rill apply and will expire SIX (6) MONT cause the application to become AB	ply be timely filed  (30) days will be considered timely.  'HS from the mailing date of this communication.  ANDONED (35 U.S.C. § 133).				
1) Responsive to communication(s) filed on 07 A	ugust 2003 .					
2a)⊠ This action is <b>FINAL</b> . 2b)□ Thi	is action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4) Claim(s) 1-8 is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6) Claim(s) <u>1-8</u> is/are rejected.						
7) Claim(s) is/are objected to.	r alaction requirement					
8) Claim(s) are subject to restriction and/or election requirement.  Application Papers						
9) The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
<ul> <li>a) ☐ The translation of the foreign language provisional application has been received.</li> <li>15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.</li> </ul>						
Attachment(s)						
<ol> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s)</li> </ol>	5) Notice of I	Summary (PTO-413) Paper No(s)  nformal Patent Application (PTO-152)  .				

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#### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments with respect to claim 1-8 have been considered but are moot in view of the new ground(s) of rejection.

- 1. New examiner, Stephen D'Agosta, has been assigned this case.
- 2. The newly provided Abstract and amendment to claim 5 overcomes previous objections.
  - 3. New art has been cited and a new rejection is shown below.

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

<u>Claims 1-4 and 6-8</u> are rejected under 35 U.S.C. 103(a) as being unpatentable over Joensuu et al. [U.S. Patent Number 5,966,653] (hereinafter Joensuu) in view of Alperovich et al. [U.S. Patent Number 6,459,680] (hereinafter Alperovich) <u>and Tiedemann Jr. et al. US 6,335,922</u>.

Regarding **claim 1**, Joensuu teaches a method for setting performing a up USSD transfer [FIGs.2-6, numeral 100] for transmitting data between two parties, namely a mobile station [FIGs. 2-6, numeral 80] and a cellular communications network [FIG.2, numeral 10] wherein the USSD transfer takes place on a fast channel if the mobile station is involved in a call, and otherwise on a slow channel [col.1, lines 61-67; col.2, lines 20-29; col.2, lines 58-60; col.4, lines 33-65]. Joensuu fails to teach the method being characterized in that comprising determining the amount of data to be transmitted is determined in the USSD transfer, and if the amount of data to be transmitted in the USSD transfer is likely to exceed a predetermined threshold, and if the mobile station is not involved in a call, directing the mobile station is directed to call mode for switching

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performing the USSD transfer to on the fast channel. However, Alperovich teaches the method being characterized in that the amount of data to be transmitted is determined, and if the amount of data to be transmitted is likely to exceed a predetermined threshold, and if the mobile station is not involved in a call, the mobile station is directed to call mode for switching the USSD transfer to the fast channel [col.2, lines 38-55; col.3, lines 36-58; col.5, lines 16-54; col.6, lines 59-67; col.7, lines 1-2; col.7, lines 60-67; col.8, lines 1-27]. Further to this point is Tiedemann, who teaches improved utilization of the CDMA forward link capacity. When the cell has a large amount of data to transmit to the remote station, the channel scheduler collects information on how much data is to be transmitted, the available forward link capacity for each cell in the network, and other parameters. Based on the collected information and in accordance with a list of system goals, the channel scheduler schedules the high speed data transmission by allocating a resource to the remote station and selecting a set of secondary code channels corresponding to an assigned transmission rate. The data is partitioned into data frames, and each data frame can be further partitioned into data portions. The code channel frames are transmitted over the assigned primary and secondary code channels. The remote station receives the code channel frames on each of the assigned code channels and reassembles the data portions of the code channel frames. If the demand for the forward link transmit power increases, one or more secondary code channels can be temporarily dropped, as necessary, to satisfy additional demand (C4, L63 to C5, L17).

Joensuu and Alperovich <u>and Tiedemann</u> are combinable because they are from the same field of endeavor, that is, improving the performance of USSD transfer in cellular systems.

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Joensuu to include Alperovich/Tiedemann in order to determine if the amount of data being transmitted exceeds a threshold and if so, the mobile station is directed to call mode using the FACCH.

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Regarding **claim 2**, Alperovich teaches a method <del>characterized in that <u>further comprising the mobile station is directed into call mode by initiating a call attempt [co1.3, lines 36-58; col.4, lines 32-48; col.5, lines 34-37; col.6, lines 59-67; col.7, lines 1-2; col.8, lines 19-27]. 8. Regarding claim 3, Alperovich teaches a method characterized in that the party that initiates the USSD transfer also initiates the call attempt [col.3, lines 36-58; col.4, lines 32-48; col.5, lines 34-37; col.6, lines 59-67; col.7, lines 1-2; col.8, lines 19-27]. 9. Regarding claim 4, Alperovich teaches a method characterized in that the Network when initiating the USSD transfer, sends the mobile station an indication that the mobile station must initiate the call attempt [col.3, lines 36-58; col.4, lines 32-48; col.5, lines 34-37; col.6, lines 59-67; col.7, lines 1-2; col.8, lines 19-27].</del></u>

Regarding **claim 6**, Joensuu teaches a mobile station [FIGs. 2-6, numeral 80], adapted for setting up comprising means for performing a USSD transfer [FIGs.2-6, numeral 100] for transmitting data between itself and a cellular communications network [FIG.2, numeral 10], wherein the USSD transfer takes place on a fast channel if the mobile station is involved in a call, and otherwise on a slow channel [col.1, lines 61-67; col.2, lines 20-29; col.2, lines 5860; col.4, lines 33-65]. Joensuu fails to teach a method characterized in that the mobile station is adapted to determine the amount of data to be transmitted; and initiate a call attempt for switching the USSD transfer to the fast channel if the amount of data to be transmitted is likely to exceed a predetermined threshold and if the mobile station is not involved in a call.

However, Alperovich teaches a method characterized in that the mobile station is adapted to determine first logic for determining the amount of data to be transmitted in the USSD transfer; and initiate second logic initiating a call attempt for switching the USSD transfer to the fast channel if the amount of data to be transmitted in the USSD transfer is likely to exceed a predetermined threshold and if the mobile station is not involved in a call [col.2, lines 38-55; col.3, lines 36-58; col.5, lines 16-54; col.6, lines 59-67; col.7, lines 1-2; col.7, lines 60-67; col.8, lines 1-27].

With regard to first/second logic elements, the examiner interprets all art cited as comprising logic (eg. a processor) that provides for control/operation of the unit/phone.

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As one skilled in the art recognizes, this can be implemented in various ways and would include either a single or multiple logic/processor device(s). At a minimum, reference Tiedemann figure 2, #10 containing multiple logic elements performing operations.

Joensuu and Alperovich are combinable because they are from the same field of endeavor, that is, improving the performance of USSD transfer in cellular systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Joensuu to include Alperovich in order to determine if the amount of data being transmitted exceeds a threshold and if so, the mobile station is directed to call mode using the FACCH to initiate a call attempt.

Regarding **claim 7**, Joensuu teaches an arrangement for a cellular communications network [FIG.2, numeral 10], adapted for setting up USSD transfer [FIGs.2-6, numeral 100] for transmitting data between itself and a mobile station [FIGs. 2-6, numeral 80], wherein the USSD transfer takes place on a fast channel if the mobile station is involved in a call, and otherwise on a slow channel [col.1, lines 61-67; col.2, lines 20-29; col.2, lines 58-60; col.4, lines 33-65]. Joensuu fails to teach a method characterized in that the arrangement comprising is adapted to: determine a first logic for determining the amount of data to be transmitted; and a second logic for initiating a call attempt and initiate a call attempt for switching the USSD transfer to the fast channel if the amount of data to be transmitted in the USSD transfer is likely to exceed a predetermined threshold and if the mobile station is not involved in a call.

However, Alperovich teaches a method characterized in that the arrangement is adapted to: determine the amount of data to be transmitted; and initiate a call attempt for switching the USSD transfer to the fast channel if the amount of data to be transmitted is likely to exceed a predetermined threshold and if the mobile station is not involved in a call [col.2, lines 38-55; col.3, lines 36-58; col.5, lines 16-54; col.6, lines 59-67; col.7, lines 1-2; col.7, lines 60-67; col.8, lines 1-27].

With regard to first/second logic elements, the examiner interprets all art cited as comprising logic (eg. a processor) that provides for control/operation of the unit/phone.

As one skilled in the art recognizes, this can be implemented in various ways and would

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include either a single or multiple logic/processor device(s). At a minimum, reference Tiedemann figure 2, #10 containing multiple logic elements performing operations.

Joensuu and Alperovich are combinable because they are from the same field of endeavor, that is, improving the performance of USSD transfer in cellular systems. Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to modify Joensuu to include Alperovich in order to determine if the amount of data being transmitted exceeds a threshold and if so, the mobile station is directed to call mode using the FACCH to initiate a call attempt.

Regarding **claim 8**, Alperovich teaches an arrangement <del>characterized in that</del> where the second logic it is adapted to initiate a call attempt by sending to the mobile station an indication that the mobile station must initiate the call attempt [col.3, lines 36-58; col.4, lines 32-48; col.5, lines 34-37; col.6, lines 59-67; col.7, lines 1-2; col.8, lines 19-27].

<u>Claim 5</u> rejected under 35 U.S.C. 103(a) as being unpatentable over Joensuu, Alperovich and Tiedemann and further in view of Dezonno US 6,449,356.

Regarding **claim 5**, Joensuu teaches claim 1 **but is silent on** calling a non-existent number or itself.

The examiner interprets a phone that calls a non-existent number or itself as a test function and is known in the art. Further to this point is Dezonno who teaches a telecommunication system that simulates completion of an outbound <u>call to a non-existent</u> number (col. 12, ref. claim #11).

It would have been obvious to one skilled in the art at the time of the invention to modify Alperovich, such that the phone can call a non-existent number or itself, to provide testing of the operation of the system.

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### Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Stephen M. D'Agosta whose telephone number is 703-306-5426. The examiner can normally be reached on M-F, 8am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Bill Trost can be reached on 703-308-5318. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist on 703-306-0377.

SMD / 20 August 2003

WILLIAM TROST SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600